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## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <i>Product:</i> <b>Buffer, Reference Standard, pH = 7.00 (Yellow)</b> | <i>Date of Manufacture:</i> 8/21/2023                 |
|   | <i>Expiration Date:</i> August 2025                   |
| <i>Intended Use:</i> Calibration of pH Meters.                        | <i>Recommended Storage:</i> 15 to 25 °C (59 to 77 °F) |
| <i>Product Code:</i> CP-E1238, CP-C1238P, CP-A1238P<br>J2156000       | <i>Lot Number:</i> <b>8308521</b>                     |
| <i>CAS Number:</i> 7732-18-5;7558-79-4;7778-77-0;26628-22-8           | <i>Country of Origin:</i> United States of America    |

This solution is traceable to the NIST Standard Reference Materials (SRMs) Potassium Dihydrogen Phosphate (186-I), Disodium Hydrogen Phosphate (186-II), Sodium Bicarbonate (191-I) and Sodium Carbonate (191-II).

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

|            |             |      |
|------------|-------------|------|
| pH at 25°C | 6.99 - 7.01 | 7.00 |
|------------|-------------|------|

This buffer is tested in Charlotte, NC under ISO|IEC 17025 accreditation (PJLA Accreditation 64539) and is standardized against National Institute of Standards and Technology (NIST) Traceable Buffer Solutions prepared according to exact NIST instructions. The solution is checked and verified using two independently calibrated high precision pH meters. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before use in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers are calibrated before use with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture and testing according to validated methods. Batch records document raw material traceability as well as production and testing history for each lot manufactured.

Quality Control, Certifying Officer

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials\*\*Contents of Certificates and Labels".